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**TITLE:** CYLINDRICAL MOVING ELEMENT  
  
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**INVENTOR-INFORMATION:**

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**ABSTRACT:**

**PROBLEM TO BE SOLVED:** To provide a cylindrical moving element which can be bent or rotated in a required direction and whose response speed is high.

**SOLUTION:** A shape at a high temperature and the shape at a low temperature of plural operating parts 17 and 18 made of shape memory alloy are memorized, and P-type Peltier elements 233 and N-type Peltier elements 243 are alternately arranged along the operating parts 17 and 18. Those P-type Peltier elements 233 and N-type Peltier elements 243 are connected in series in a zigzag by electrodes 25 so that the heat generating part and the heat absorbing part are at the same position. The operating parts 17 and 18 can be transformed in a required direction by applying currents selectively to the Peltier elements 233 and 243.

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